

SLOVENSKI STANDARD SIST EN 175201-804:2002

01-september-2002

Detail specification - Circular connectors - Round contacts, size diameter 1,6 mm, threaded coupling

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iTeh STANDARD PREVIEW

Spécification particulière: Connecteurs circulaires + Contacts ronds, de diamètre 1,6 mm, couplage fileté

SIST EN 175201-804:2002

Ta slovenski standard je istoveten z slovenski slovenski

ICS:

31.220.10 XããÁşÁçã} ã& ÊÁ[} ^\ d[hã Plug-and-socket devices.

SIST EN 175201-804:2002 en

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<u>SIST EN 175201-804:2002</u> https://standards.iteh.ai/catalog/standards/sist/72822ff2-c7b4-445e-be5a-3f250f2b165b/sist-en-175201-804-2002

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 175201-804

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English version

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CENELEC

European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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Foreword

At the request of the Technical Committee CENELEC TC 48B, LF connectors, the text of CECC 75 201-804:1996, Issue 1, was submitted to the formal vote for conversion into a European Standard. It was approved by CENELEC as EN 175201-804 on 1999-10-01.

The following date was fixed:

 latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement

(dop) 2000-10-01

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CECC WG25: LF Connectors

Specification available from the addresses shown

on the blue fly sheet

ELECTRONIC COMPONENTS OF

ASSESSED QUALITY

- DETAIL SPECIFICATION IN

ACCORDANCE WITH

EN 175 200: 1991

EN 175201-804

Page 3 of 49 pages

see 5 for dimensions

1 SCOPE

Detail specification for circular connectors, round contacts, size Ø 1,6 mm, threaded coupling.

6 or 11 contacts + protective earth contacts (PE)

Termination: Crimp and solder

Assessment levels: B and G (*)

Climatic category:

SIST EN 175201-804:2002 https://standar\self-1.ai/catalog/standards/sist/72822ff2-c7b4-445e-be5a-

3f250f2b165b/sist-en-175201-804-2002

Electrical characteristics:

see 7.2

Mechanical characteristics:

see 7.3

Ordering information:

see 10

(*) see 8 and 9

Information about manufacturers who have components qualified to this detail specification is available in the current CECC 00 200: (Register of Firms, Products and Services Approved under the CECC System).

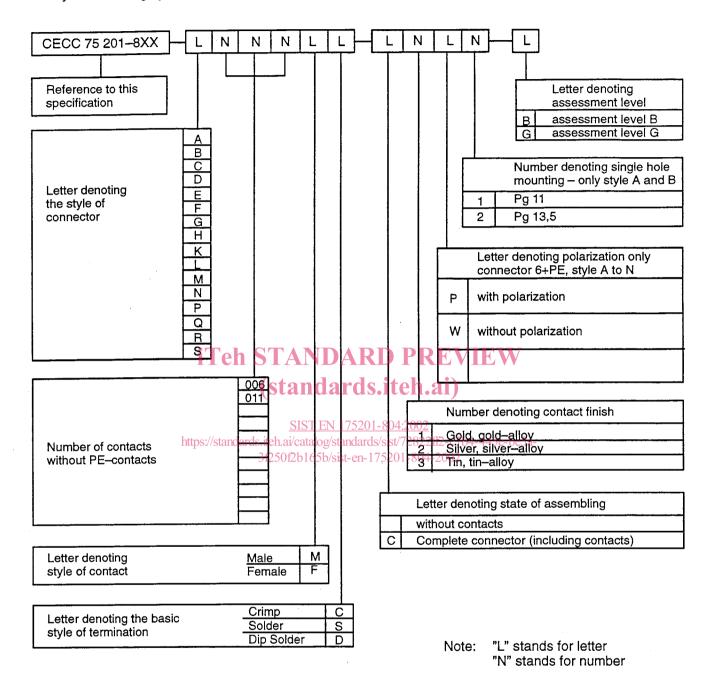
2 Related documents

The following documents contain provisions which, through reference in this text, constitute provisions of this specification. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this specification are encouraged to investigate the possibility of applying the most recent editions of the documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

EN 175 200	(1991):	(CECC 75 200, Issue 1, 1985) Circular connectors
IEC 60068-1	(1988):	Environmental testing Part 1: General and guidance
IEC 60352-2	(1990):	Solderless connections Part 2: Solderless crimped connections General requirements, test methods and practical guidance
IEC 60410	(1973):	Sampling plans and procedures for inspections by attributes
IEC 60512-1	(1984):	Electromechanical components for electronic equipment; basic testing procedures and measuring methods Part 1: General Amendment No. 1 (1988)
IEC 60512-2	(1985):	Part 2: General examination, electrical continuity and contact resistance tests, insulation tests and voltage stress tests
IEC 60512-3	iTeh (1976):	Part 3: Current—carrying capacity tests
IEC 60512-5	(1992):	Part 5: Impact tests (free components), static load tests (fixed components), endurance tests and overload tests
IEC 60512-7	(1993): https://standard	Part 7: Mechanical operating tests and sealing tests
IEC 60512-8	(1984):	Part 8:b Connector tests (mechanical) and mechanical tests on contacts and terminations Amendment No. 1 (1985)
IEC 60512-9	(1992):	Part 9: Miscellaneous tests
IEC 60529	(1989):	Degrees of protection provided by enclosures (IP code)
IEC 60664-1	(1992):	Insulation co-ordination for equipment within low-voltage systems Part 1: Principles, requirements and tests
ISO 263	(1973):	ISO inch screw threads; General plan and selection for screws, bolts and nuts; Diameter range 0,06 in to 6 in
ISO 468	(1982):	Surface roughness. Parameters, their values and general rules for specifying requirements
ISO 1043-1	(1990):	Plastics; Symbols; Part 1: Basic polymers and their special characteristics
ISO 1043-2	(1990):	Plastics; Symbols; Part 2: fillers and reinforcing materials

3 Style designation

Connectors, performance level and assessment level according to this specification shall be designated by the following system:



Examples: Connector style E, having 6 male contacts with silver–alloy contact finish with crimp terminations.

Complete connector without polarization but with assessment level G:

CECC 75 201–8XX–E006MC–C2W–G

Connector style A, having 11 female contacts with silver–alloy contact finish with crimp terminations. Complete connector with polarization P, single hole mounting Pg11 and assessment level B: CECC 75 201–8XX–A011FC–C2P1–B

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4 Common features

4.1 Isometric view

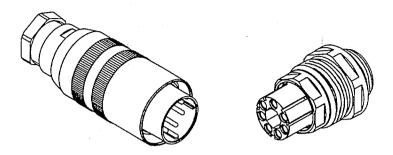
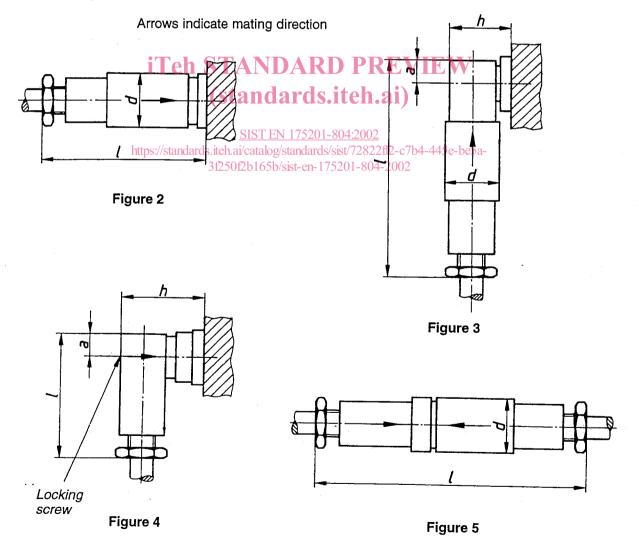


Figure 1 - Isometric view

4.2 Mating information



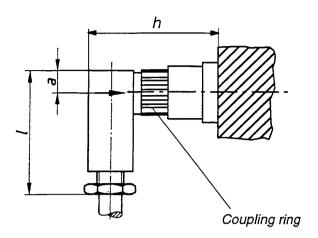


Figure 6

iTeh STANDARD PREVIEW

Table 1 - Mating dimensions of permissible styles

Figure	Combination of Styles	a max <u>EN 17</u>	d 5201-804:2002	h ¹ max.	ا ¹ max.
2	AM-EF Standard AF-EM BM-EF BF-EM HM-EF HF-EM KM-EF KF-EM LM-EF LF-EM MM-EF	s.iteri.arcatalogistan 3f250f2b165b/sist-	en-175201-804-200	-/6 4-445e-665 a- 12 -	105
	NM-EF NF-EM	-	< 30	-	90
	PM-RF QF-RM		< 29	_	96
3	CM-EF CF-EM	15	< 30	40	140

Table 1 – Mating dimensions of permissible styles (cont'd)

Figure	Combination of Styles	a max.	d	h ¹ max.	[¹ max.	
	AM-FF BM-FF HM-FF KM-FF LM-FF	15		70	80	
4	NM-FF	15	_	55	80	
	AFFM BFFM HFFM KFFM LFFM MFFM	15	-	80	80	
	NFFM	15	<u> </u>	55	80	
5	DM-EF	-	< 30	_	170	
	AM-GF BM-GF HM-GF KM-GF LM-GF MM-GF	15 [A N D A D	- D PRFV	75 IFW	80	
6	NM-GF	15		60	80	
	MF–GM 3f2	50f2b165b/sist-en-1	s/sist/72822ff2-c7b	80 1-445e-be5a-	80	
	NF-GM	15	_	55	80	
	PM-SF QM-SF	15	_	66	90	
1 Dimensions in mated condition, additional space for insertion min. 15 mm						

4.3 Survey of styles

Number of contacts: 6 + PE; 11 + PE

4.3.1 Fixed connectors

Style A straight, single hole mounting

Variant M, male contacts (AM)

Variant F, female contacts (AF)

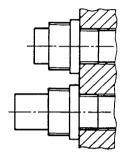


Figure 7



Figure 8

Style C right angled, single hole mounting

Variant M, male contacts (CM)

Variant F, female contacts (CF)

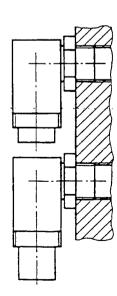


Figure 9

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Style H, K and L straight, square flange, front mounting

Variant M, male contacts (HM), (KM), (LM)

Variant F, female contacts (HF), (KF), (LF)

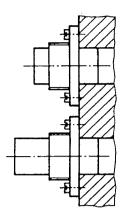


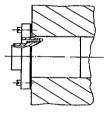
Figure 10



Style N straight, oval flange, counter sink mounting

Variant M, male contacts (NM)

Variant F, female contacts (NF)



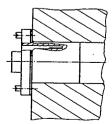


Figure 12

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Style P and Q square flange, front mounting

Variant M, male contacts (PM), (QM) (only for connection with styles RF and SF

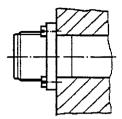


Figure 15

4.3.2 Free connectors

Style D, straight

Variant M, male contacts (DM) only for connection with style EF



iTeh STANDARD PREFigure 13/

Style E, straight with coupling ring (standards.iteh.ai)

Variant M1,

male contacts (EM)

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Variant F1,

female contacts (EF), only for connection with style DM



Style R Figure 14

Variant F female contacts (EF), only for connection with style PM and QM

¹ Outside view of variant M and variant F are identical.

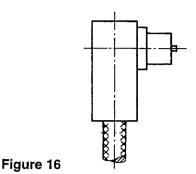
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Style F

right angled, with locking screw

Variant M¹, male contacts (FM) only Connector 6+PE

Variant F¹, female contacts (FF) only Connector 6+PE



Style G

right angled, with coupling ring

Variant M¹, male contacts (GM)

Variant F1,

female contacts (GF) iTeh STANDARD PRE

(standards.iteh.ai)
Figure 17

Style S

SIST EN 175201-804:2002

Variant F
female contacts (SF), only for connections with Style PM and QM

1 Outside view of variant M and variant F are identical.

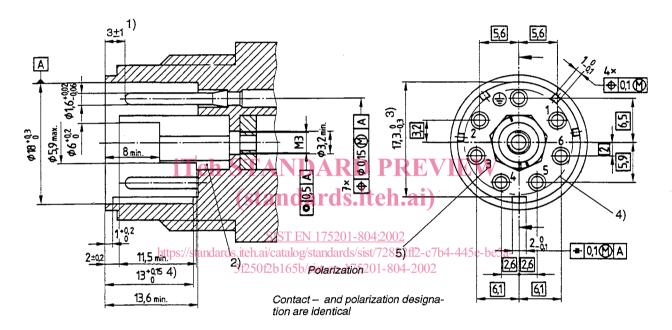
5 Dimensions

5.1 General

Dimensions in mm are original. Drawings are shown in the first angle projection. The shape of the connectors may deviate from those given in the following drawings as long as the specified dimensions are not influenced.

Missing dimensions shall be chosen according to common characteristics and the intended use.

5.2 Connectors with male contacts



NOTES:

- 1 Including axial tolerance
- 2 Polarization optional
- 3 Dimension for 5 keys
- 4 min. 3 supporting areas on the circumference distributed.
- 5 see 5.4 and 5.5

Figure 18 - Mating dimensions, connector 6 + PE, style A to N